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StWhy1	MSNFSLSPSPTSGFSLNLQNPTKTSYLSFSSSIINTIFAPLSSNTTKSFSQLTHKAALPRNLSLTCRHSDY	70
AtWhy1	MS..QLLSTPLMAVN.	
AtWhy2	MKQARSLLSRSLCDQSKS.	
AtWhy3	MS..QLLSSPPMAVFSKTFINHKFSDARELSSH.	
Consensus	F S	
StWhy1	FEPQQQQQQQQQP.QGASTPKVFGYSTYKGKAALTVEPRSPEFSPLDSCAFKLSREGWMELQFIAPAAG	40
AtWhy1	FEKQRFGDSSSSPSPAEGLPARF	
AtWhy2	SGRLFAPYSFKGKAALSVERVLBSSETEIDSGCNLRIDRGSHEMWTEMPAIG	50
AtWhy3	FEKQRFGDSSSSQN.AEVSSPRFVGHSEYKGKAALTIEPRAREEVALESSGAFKLTKEGGFQEAAPAAG	60
Consensus	r f Si yKGKAALTveP P F i dSG k i r G l m i F P G	70
StWhy1	VROQYDWRSRKQVFSLSVSEITGSISLGAKDSCEFFHDPPNKGRSDEGRVRKVVKVEPLPDGSGHFFNLSVQN	80
AtWhy1	VROQYDWRSRKQVFSLSVTEIGTIVSLGPRESCEFFHDPPKGKSDDEGKVRKVVKVEPLPDGSGHFFNLSVQN	90
AtWhy2	ERKXYDWRSRKQVFSLSVTEIGTISMGSKDSSEFFHDPSMKSSNAGQVRKSLSVVRKVKVVKVEPLPDGSGRFFNLSVNN	100
AtWhy3	VROQYDWRSRKQVFSLSVTEIGNLVSLGPRESCEFFHDPPKGKGDGGKVRKVVKVEPLPDGSGRFFNLSVQN	110
Consensus	* * 150	120
StWhy1	VROQYDWRSRKQVFSLSVSEITGSISLGAKDSCEFFHDPPNKGRSDEGRVRKVVKVEPLPDGSGHFFNLSVQN	140
AtWhy1	VROQYDWRSRKQVFSLSVTEIGTIVSLGPRESCEFFHDPPKGKSDDEGKVRKVVKVEPLPDGSGHFFNLSVQN	160
AtWhy2	ERKXYDWRSRKQVFSLSVTEIGTISMGSKDSSEFFHDPSMKSSNAGQVRKSLSVVRKVKVVKVEPLPDGSGRFFNLSVNN	170
AtWhy3	VROQYDWRSRKQVFSLSVTEIGNLVSLGPRESCEFFHDPPKGKGDGGKVRKVVKVEPLPDGSGRFFNLSVQN	180
Consensus	r LS TEiG i i SIG kdS EFFHDPP G VRK L V P DGSG F * * 200	190
StWhy1	KLNLDENIYIPVTKAEEFAVLVSAENEMVMPYLGWHTAVNSFKPEADA.SR. SNNANPRSGAEELEWNR (SEQ ID NO:1)	210
AtWhy1	KLNVDENIYIPVTKAEEFAVLVSAENEMVLPYLGWHAfansikpeet.SR. VNNASPNYGGDYEWNR (SEQ ID NO:2)	220
AtWhy2	SKTKNDYFVVPNTKAEEFAVMKTAEEFAVPHMGWNRLTGHVNTEALPSRNVSHLKTEPQLELEWDR (SEQ ID NO:3)	230
AtWhy3	KLNVDENIYIPVTKAEEFAVLVSAENEMVLPHIGMSAfansikpeeds.NR. LNNAASPKYGGDYEWSR (SEQ ID NO:4)	240
Consensus	i e SAF F IP i i GW E R e EW r 250 260 270	250

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FIG-1

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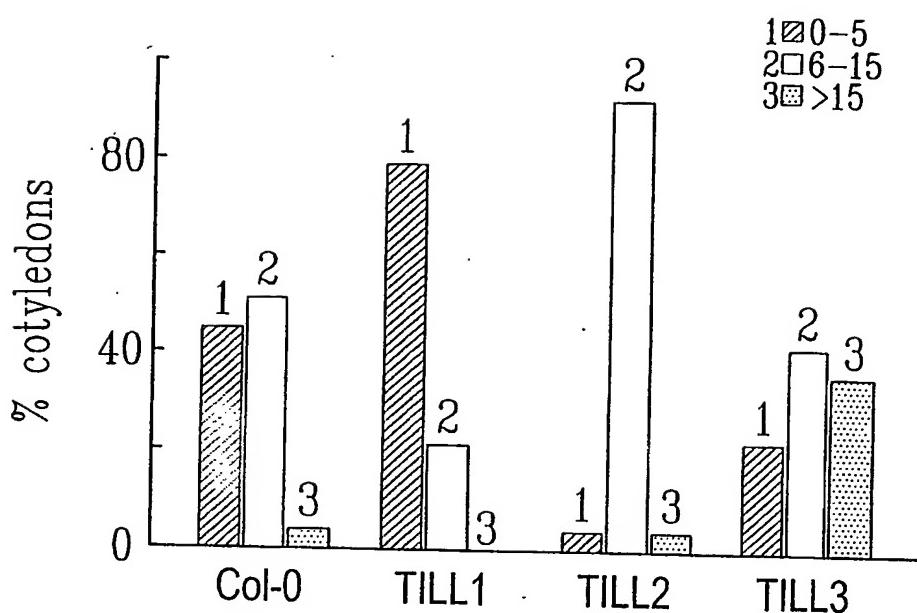


Fig- 2

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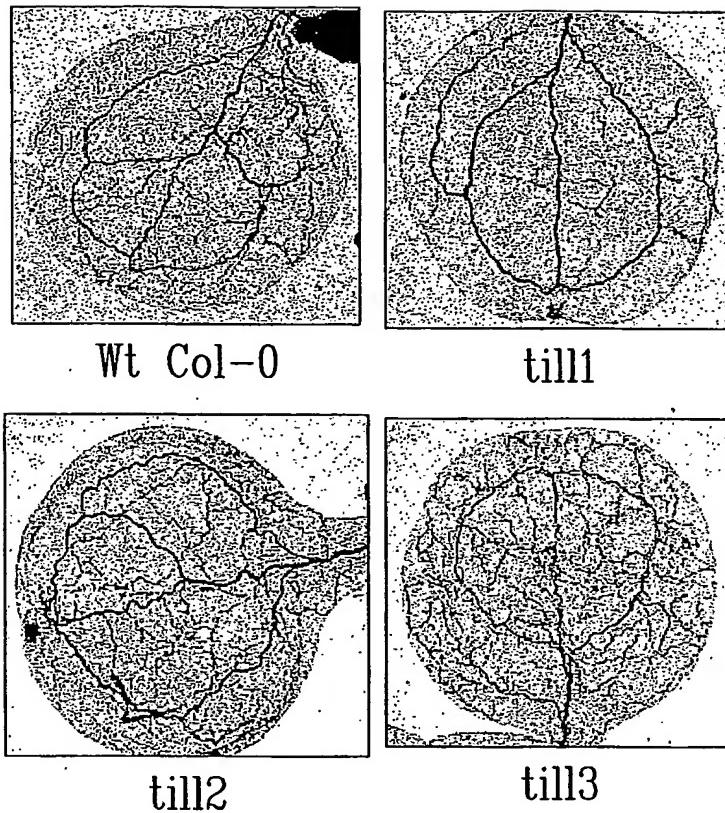


Fig- 3

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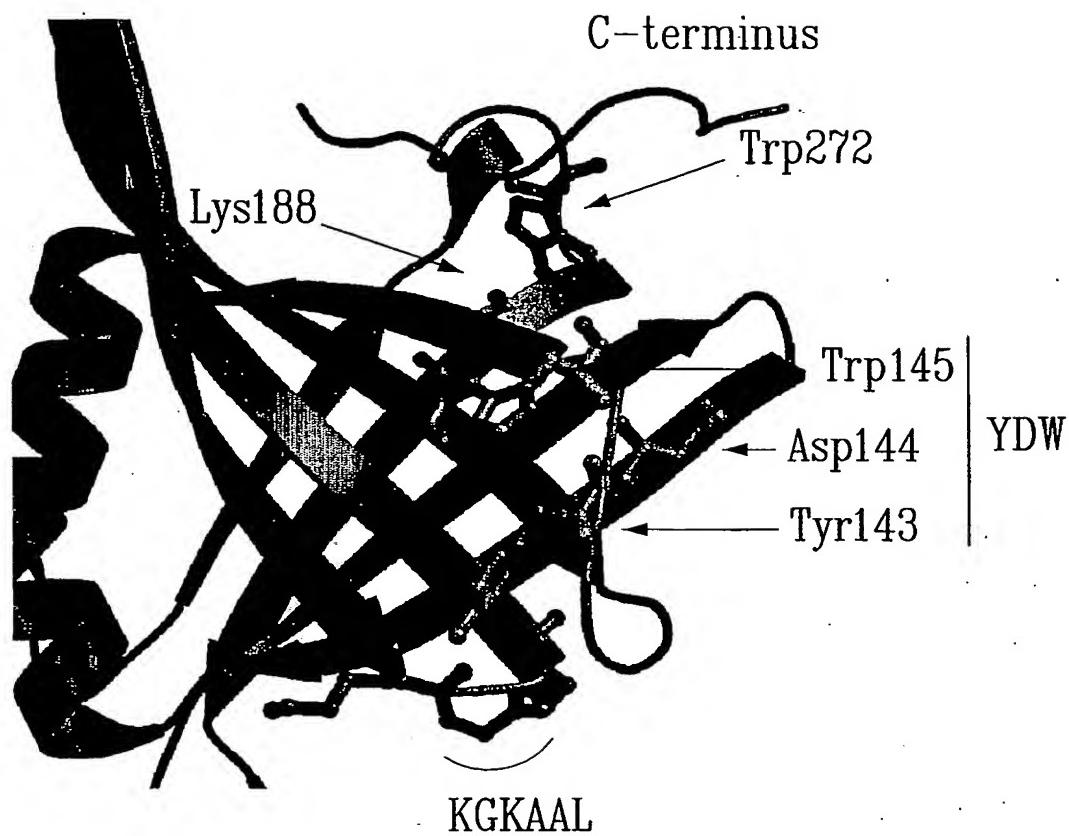


FIG-4

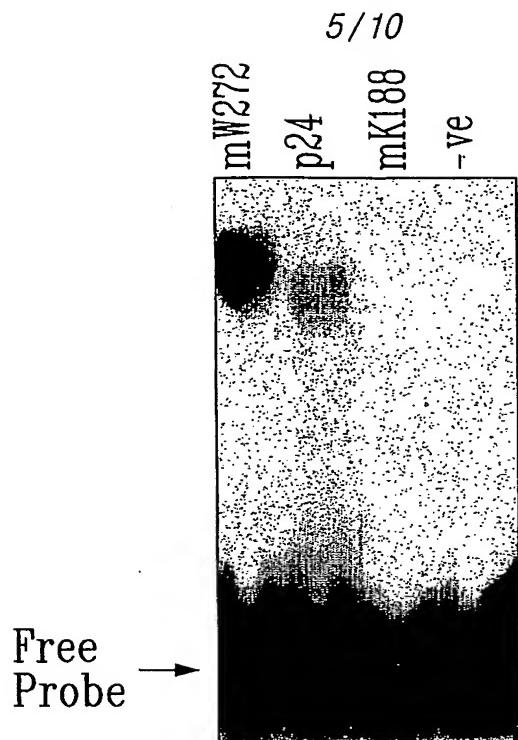


Fig. 5A

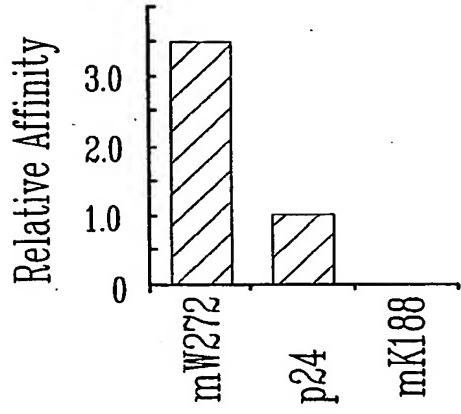


Fig. 5B

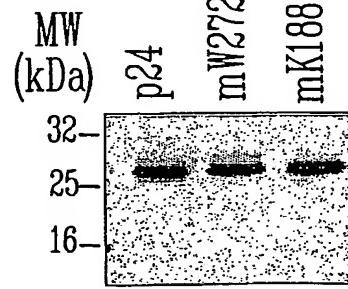


Fig. 5C

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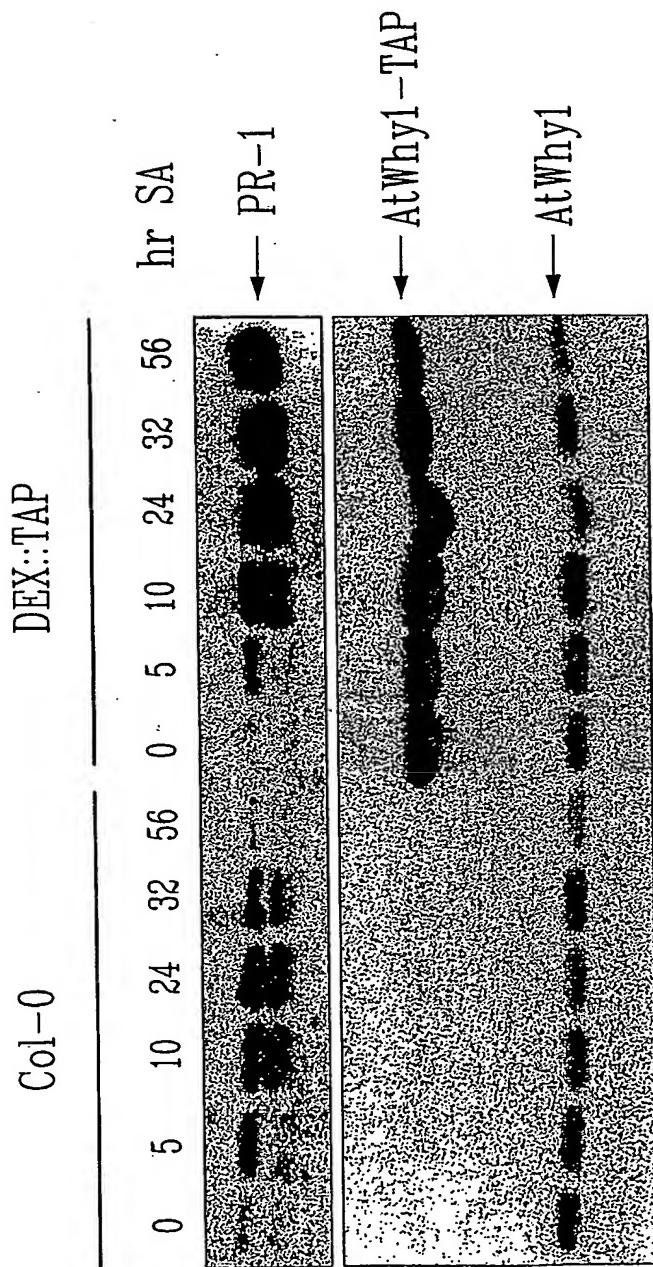
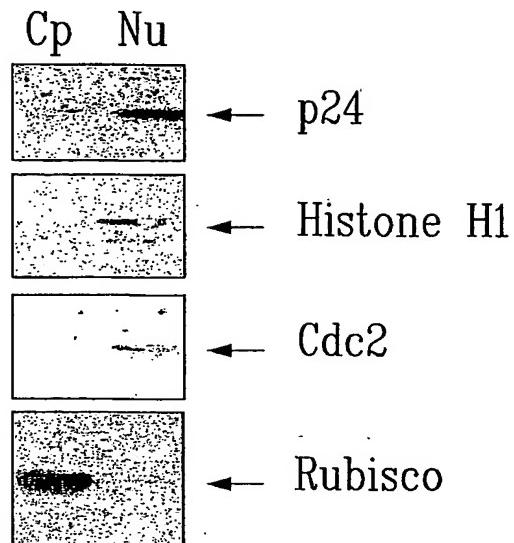


FIG- 6

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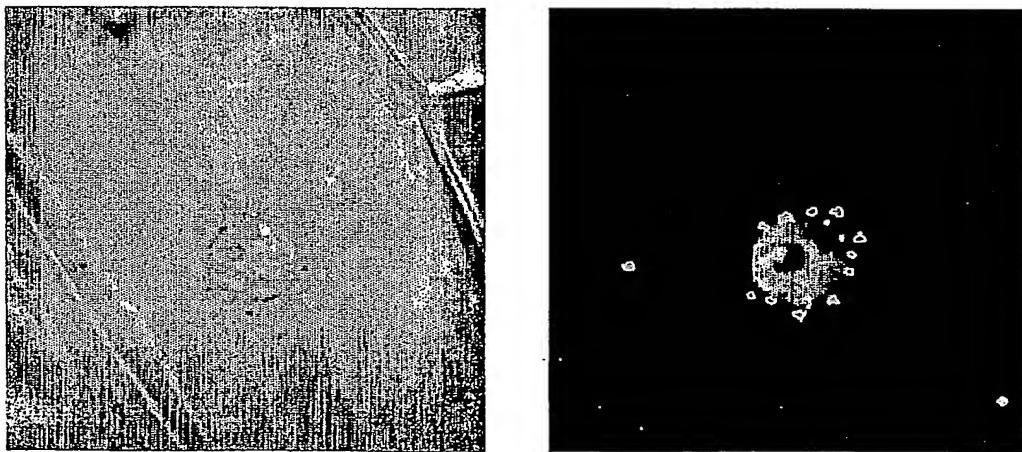
Intracellular Localization of p24 in Potato Leaves



Alk. pyr. 5.8 N.D.
 Nitrite red. 85 N.D.
 Chlorophyll 16 N.D.

Fig-7

Intracellular Localization of p24-GFP in Roots

Fig-8

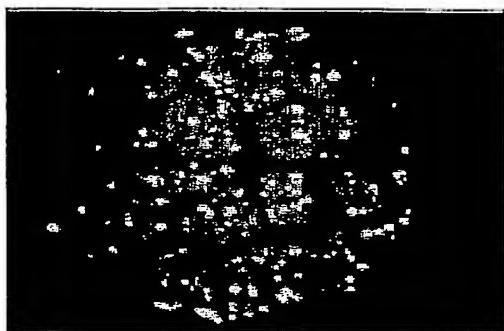
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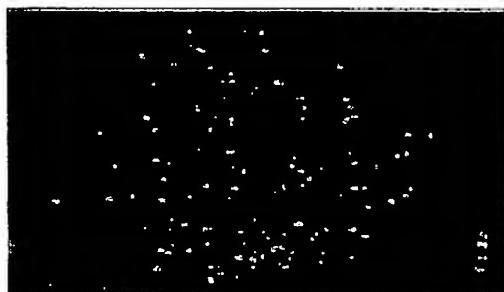
Chloroplast Localization of p24-GFP in Mesophyll Cells



Chlorophyll



p24-GFP



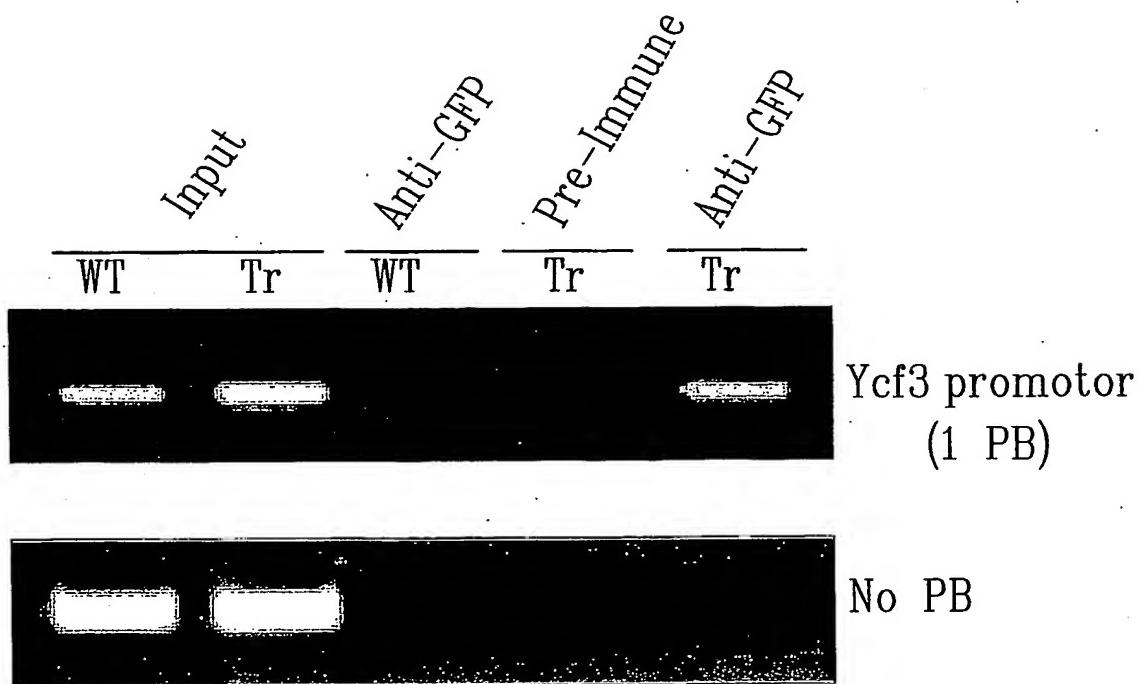
Syto85

Fig- 9

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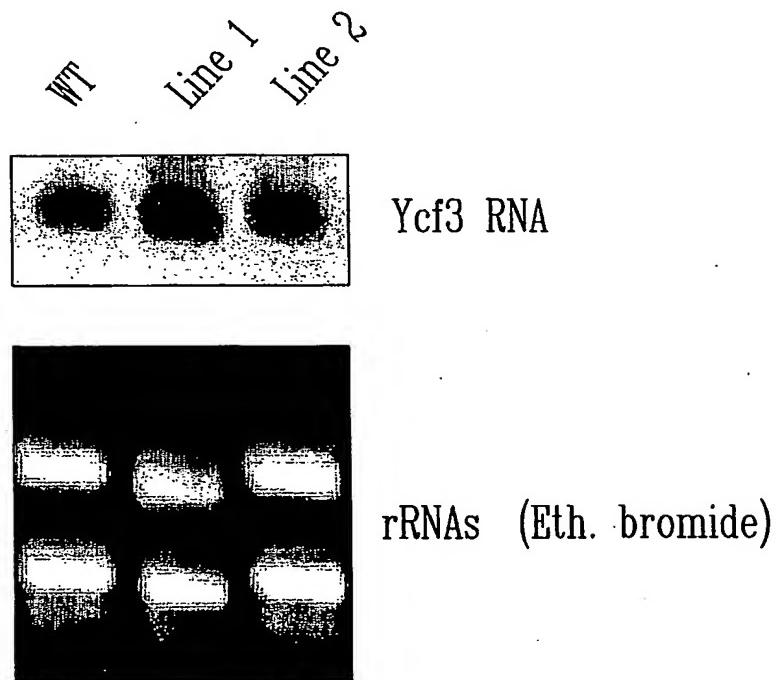
p24 Binds to *YCF3* on Chloroplast DNAFig-10

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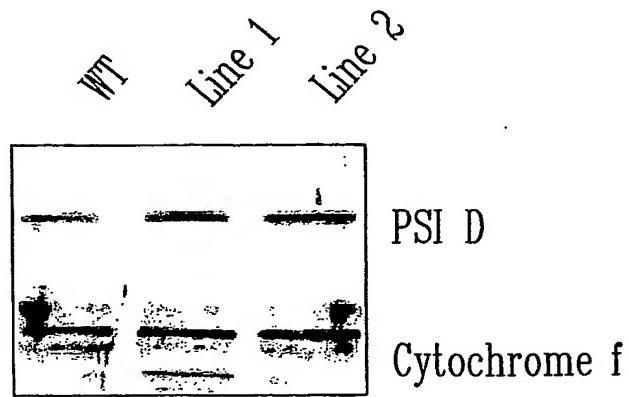
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Ycf3 RNA Increases in Wounded p30 Potato

FIG-11

PSI-D Protein Level Increases in Wounded p30-Potato

FIG-12